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SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GREENBELT, MARYLAND

Volume 1, No. 11

SATELLITE SITUATION REPORT

July 5, 1961

VOLUME 1, NO. 11, JULY 5, 1961

The following report reflects data computed and compiled by Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical Observatory as of 1200Z on July 5, 1961.

Jerome Taube

JEROME TAUBE
HEAD, Tracking Networks Section
Operations Control Branch

July 5, 1961 5p

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OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE	PERIGEE	TRANSMITTING FREQ. (MC/S)
1958 ALPHA	EXPLORER I	US	1 FEB 58	106.6	33.21	1120	217	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.25	2685	405	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.9	34.24	2452	403	108.022
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.4	32.88	2051	343	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.98	2247	377	
1959 DELTA	EXPLORER VI	US	7 AUG 59	POSITION UNCERTAIN				
1959 ETA	VANGUARD III	US	18 SEP 59	129.8	33.34	2313	322	
1959 MU	LUNIK I	USSR	2 JAN 59	450D	0.01	1.3177AU	0.9766AU	
1959 NU	PIONEER IV	US	3 MAR 59	398D	0.127	1.1421AU	0.9871AU	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.31	669	344	19.9904
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	100.9	50.30	661	341	
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9931AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	464	428	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	466	428	107.997
1960 BETA 3	NONE	US	1 APR 60	97.9	48.46	446	375	
1960 GAMMA 1	ROCKET BODY	US	13 APR 60	90.6	51.25	205	179	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	94.9	51.28	416	229	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.20	468	290	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	92.6	65.02	322	175	
1960 EPSILON 3	NONE	USSR	15 MAY 60	93.4	64.89	370	172	
1960 EPSILON 4	NONE	USSR	15 MAY 60	POSITION UNCERTAIN				
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.3	33.00	314	296	
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	649	389	162;216;108.
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	657	381	
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	643	383	
1960 IOTA 1	ECHO I	US	12 AUG 60	117.0	47.26	995	941	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1048	932	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.1	47.20	1049	941	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.37	1045	950	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.20	1060	940	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.9	28.30	750	604	107.9709

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE	PERIGEE	TRANSMITTING FREQ. (MC/S)
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.30	762	565	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.4	49.98	1407	259	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.4	49.98	1408	259	
1960 XI 3	NONE	US	3 NOV 60	111.6	49.98	1371	250	
1960 XI 4	NONE	US	3 NOV 60					
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	461	378	108.0;108.03
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	456	378	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.57	444	394	
1960 PI 4	NONE	US	23 Nov 60	98.3	48.57	462	383	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.40	342	295	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.9	97.40	342	295	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	291D	0.581	1.0684AU	0.7104AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.2	38.86	1567	431	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.63	1614	395	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	1590	400	
1961 DELTA 4	NONE	US	16 FEB 61	POSITION UNCERTAIN				
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	94.5	80.91	434	175	
1961 EPSILON 4	NONE	US	17 FEB 61	95.5	80.91	427	246	
1961 ZETA	DISCOVERER XXI	US	18 FEB 61	96.2	80.74	557	154	
1961 KAPPA	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	93.6	82.31	367	183	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	100.1	81.94	816	126	
1961 LAMBDA 3	NONE	US	8 APR 61	97.1	81.94	646	123	
1961 NU	EXPLORER XI	US	27 APR 61	107.8	28.80	1109	302	108.058
1961 XI	DISCOVERER XXV	US	16 JUN 61	89.6	82.11	172	139	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.7	67.0	623	534	
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	67.0	634	534	
1961 OMICRON 3	ROCKET BODY	US	29 JUN 61	103.4	67.0	606	534	
1961 OMICRON 4	NONE	US	29 JUN 61	102.9	67.0	581	534	
1961 OMICRON 5	NONE	US	29 JUN 61	104.0	67.0	642	534	
1961 OMICRON 6	NONE	US	29 JUN 61	103.2	66.78	599	534	

* APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

THE DECAYED OBJECTS LIST AND LUNAR AND SPACE PROBES LIST REMAIN UNCHANGED.

APOGEE-PERIGEE PLOT

Chart I of this report shows the change in the Apogee and Perigee of the Echo I Satellite. The column on the left side of the chart indicates the height of the element in miles above the surface of the earth. Each division moving across the chart represents two days referenced to the launch date, August 12, 1960.

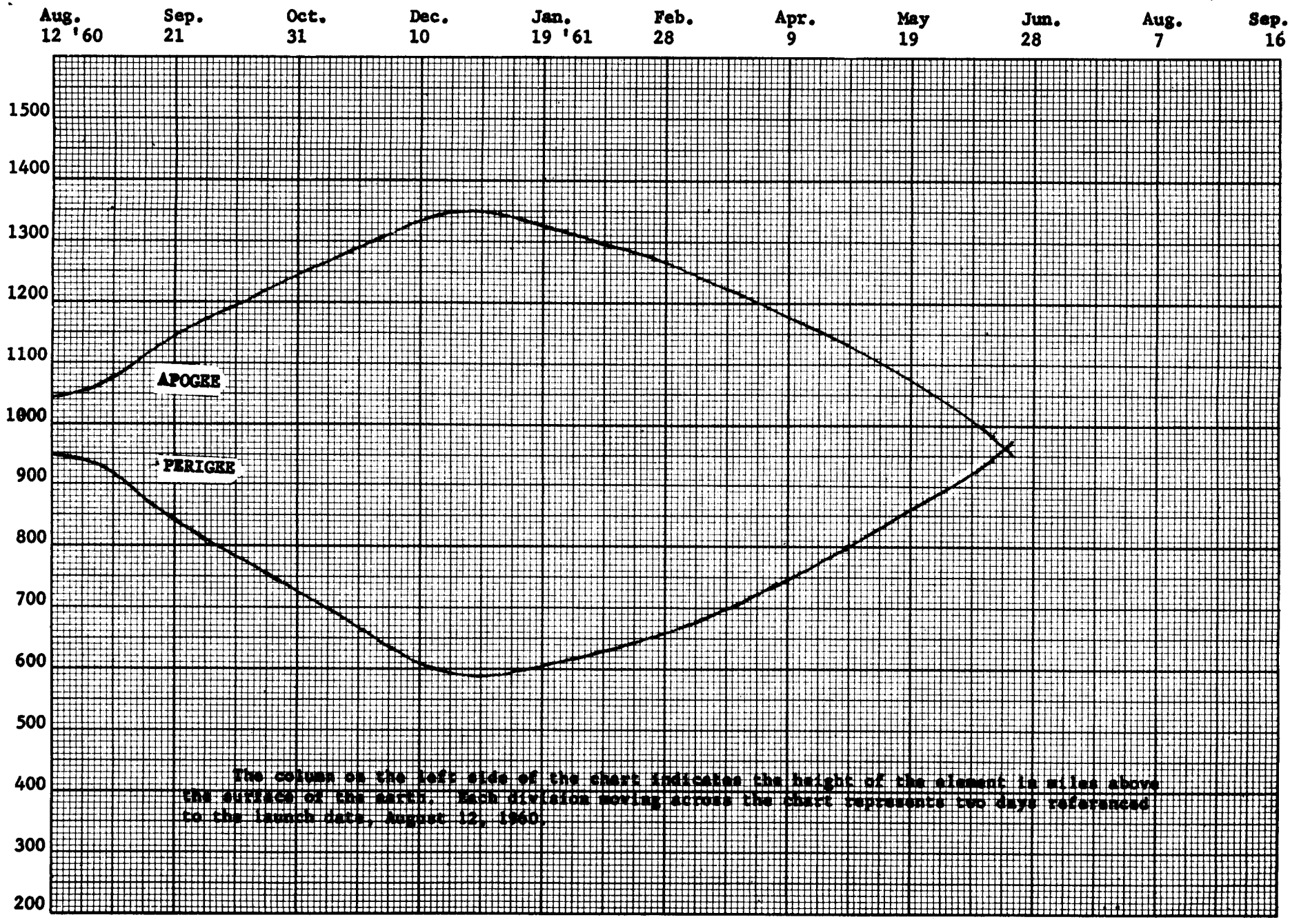

CHART I. APOGEE - PERIGEE VS. TIME